

# **CONCURRENT ENZYMATIC POLYNUCLEOTIDE SYNTHESIS AND DETECTABLE SIGNAL GENERATION**

## **Abstract of the Disclosure**

The present invention is based, in part, on the discovery that structure specific nuclease, alone or in combination with nucleic acid polymerase, especially the ones lacking 5' nuclease activity can be used for detection or measurement of target nucleic acid sequences. Accordingly the present invention provides methods and kits useful for generating signals indicative of the present of target nucleic acid sequences and for detection and/or measurement of target nucleic acid sequences.